



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

2930 Gay Avenue, San José, CA 95127 · Phone: 408-928-6800 · Fax: 408-928-6416 · www.arusd.org

ADDENDUM 2 FOR RFQ/RFP NO. B2223-BONDS39

RUSSO-MCENTEE ACADEMY HVAC REPLACEMENT

1. Studio W Architects Addendum NO. 1 dated 06/07/2023 is incorporated into the BID DOCUMENTS

Please submit a signed copy of this addendum with your RFQ/P response.

Company Name: _____

Signature: _____

Hilaria Bauer, Ph.D., Superintendent

Board of Trustees: Minh Pham, President · Corina Herrera-Loera, Vice-President ·
Andrés Quintero, Clerk · Andrea Flores Shelton, Member · Linda Chavez, Member

ADDENDUM NO. 1

06/07/2023

**RE: ALUM ROCK UNION SCHOOL DISTRICT
Russo-McEntee Academy
DSA File Number: 43-4
DSA Application Number: 01-120632
Studio W Project Number: 22027**

From: Studio W Associates, Inc.; dba. Studio W Architects
111 N. Market Street
San Jose, CA 95113

To: Prospective Bidders

This Addendum forms a part of the Contract Documents and modifies the original bidding documents dated 04/23/2023 as noted below. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

The following changes or clarifications shall be made part of the Bid Documents and shall be taken into consideration when submitting bids.

CHANGES TO SPECIFICATIONS

1. **Table of Contents**
 - a. Added specification section 323113
2. **32 31 13 CHAIN-LINK FENCES AND GATES**
 - a. Added section.

Attachments

Specifications: (Marked Delta 1 or noted as Addendum 01)

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32 31 13	CHAIN-LINK FENCES AND GATES

END OF ADDENDUM

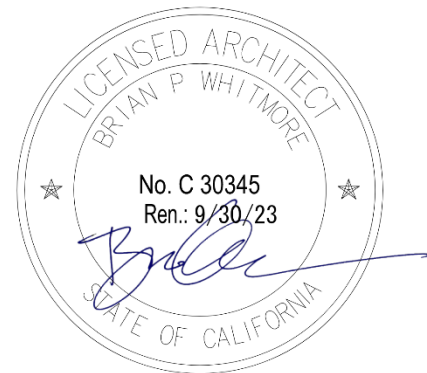
Distribution:

- (1) Alum Rock Union School District
- (1) All Bidders
- (1) Architect's Consultants
- (1) Studio W Project File 22027 6.0 Bid

Note: It is incumbent upon the Prime Bidder to notify his subcontractor and/or materials supplier of the above changes in the Contract Documents.

For: Alum Rock Union School District
2930 Gay Ave.
San Jose, CA 95127

Studio W Architects
1930 H Street
Sacramento, CA 95811
(916) 254-5600



Brian P. Whitmore, President

C30345



Alum Rock Union Elementary School District
Russo-McEntee Academy - HVAC Replacement
Construction Documents

Project #22027

232300 Refrigerant Piping	LP
233100 HVAC Ducts and Casings	LP
233300 Air Duct Accessories	LP
233423 HVAC Power Ventilators	LP
233700 Air Outlets and Inlets	LP
238129 Variable Refrigerant Flow HVAC Systems	LP

DIVISION 26 - ELECTRICAL

260500 Common Work Results for Electrical	LP
260505 Selective Demolition for Electrical	LP
260519 Low-Voltage Electrical Power Conductors and Cables	LP
260526 Grounding and Bonding for Electrical Systems	LP
260529 Hangers and Supports for Electrical Systems	LP
260533.13 Conduit for Electrical Systems	LP
260533.16 Boxes for Electrical Systems	LP
260548 Vibration and Seismic Controls for Electrical Systems	LP
260553 Identification for Electrical Systems	LP
260800 Electrical Commissioning Requirements	LP
260923 Lighting Control Devices	LP
262416 Panelboards	LP
262726 Wiring Devices	LP
262813 Fuses	LP
262816 Disconnects	LP
265100 Interior Lighting	LP
265200 Lighting Control System	LP
265600 Exterior Lighting	LP

DIVISION 27 - COMMUNICATIONS

270000 Communications Administration	LP
270500 Common Work Results Communications	LP
271300 Communications Backbone Cabling	LP
271500 Communications Horizontal Cabling	LP

DIVISION 28 - ELECTRONIC SAFETY AND SECURITY

284600 Fire Detection and Alarm	LP
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DIVISION 32 - EXTERIOR IMPROVEMENTS

321216 Asphalt Paving-Striping	Studio W
321313 Concrete Paving, Truncated Domes	Studio W
323113 Chain-link fences and Gates	Studio W



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SECTION 323113 - CHAIN-LINK FENCES AND GATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Chain-Link Fences: Industrial.
 - 2. Gates: Swing.
 - 3. Hardware: Panic – Push bars and levers.

1.3 PERFORMANCE REQUIREMENTS

- A. Structural Performance: Provide chain-link fences and gates capable of withstanding the effects of gravity loads and the following loads and stresses within limits and under conditions indicated:
 - 1. Determine minimum post size, group, and section according to ASTM F 1043 for framework up to 12 feet high, and post spacing not to exceed 10 feet.
- A. Accessibility Requirements for Door Hardware: (all requirements below shall apply to gates as well)
 - 1. Doors/doorways as part of an accessible route shall comply with CBC Sections 11B-404.
 - 2. The clear opening width for a door shall be 32” minimum. For a swinging door it shall be measured between the face of the door and the stop, with the door open 90 degrees. There shall be no projections into it below 34” and 4” maximum projections into it between 34” and 80” above the finish floor or ground. Door closers and stops shall be permitted to be 78” minimum above the finish floor or ground. CBC Section 11B-404.2.3
 - 3. Handles, pulls, latches, locks, and other operable parts on accessible doors shall comply with CBC Section 11B-309.4 and shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. Operable parts of such hardware shall be 34” minimum and 44” maximum above finish floor or ground. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both side. CBC Section 11B-404.2.7
 - 4. The force for pushing or pulling open a door shall be as follows: CBC Section 11B-404.2.9.
 - a. Interior hinged doors, sliding or folding doors, and exterior hinged doors: 5 pounds (22.2 N) maximum.
 - b. Required fire doors: the minimum opening force allowable by the DSA authority, not to exceed 15 pounds (67N).
 - c. These forces do not apply to the force required to retract latch bolts or disengage other devices that hold the door in a closed position.

- d. The force required to activate any operable parts, such as retracting latch bolts or disengaging other devices, shall be 5 pounds (22.2N) maximum to comply with CBC Section 11B-309.4.
 5. Door closing speed shall be as follows: CBC Section 11B-404.2.8.
 - a. Closer shall be adjusted so that the required time to move a door from an open position of 90 degrees to a position of 12 degrees from the latch is 5 seconds min.
 - b. Spring hinges shall be adjusted so that the required time to move a door from an open position of 70 degrees to the closed position is 1.5 seconds minimum.
 6. Thresholds shall comply with CBC Section 11B-404.2.5.
 7. Floor stops shall not be located in the path of travel and 4" maximum from walls.
 8. Hardware (including panic hardware) shall not be provided with "Night Latch" (NL) function for any accessible doors or gates unless the following conditions are met per DSA Interpretation 10-08 DSA /AC (External), revised 4/28/09. Such conditions must be clearly demonstrated and indicated in the specifications:
 - a. Such hardware has a 'dogging' feature.
 - b. It is dogged during the time the facility is open.
 - c. Such 'dogging' operation is performed only by employees as their job function (non-public use).
 9. Pair of doors: limit swing of one leaf to 90 degrees so that a clear floor space is provided beyond the arc of the swing for the wall-mounted tactile sign. CBC Section 11B-703.4.2.1.
- B. Fences, gates and hardware:
1. Gates that are part of the accessible route shall meet all the requirements of an accessible door in compliance with CBC Section 11B-404.
 2. The lever of lever actuated latches or locks for an accessible gate shall be curved with a return to within 1/2" of the (face of) gate to prevent catching on the clothing or persons. California Referenced Standards code. T-24 Part 12, Section 12-10-202, Item (F).
 3. Swing doors and gate surfaces within 10" of the finish floor or ground shall have a smooth surface on the push side extending the full width of the door or gate. Parts creating horizontal or vertical joints in these surfaces shall be within 1/16" of the same plane as the other and be free of sharp or abrasive edges. Cavities created by added kick plates shall be capped. CBC Section 11B-404.2.10.

1.4 SUBMITTALS

- A. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for chain-link fences and gates.
 1. Fence and gate posts, rails, and fittings.
 2. Chain-link fabric, reinforcements, and attachments.
 3. Gates and hardware.
- B. Shop Drawings: Show locations of fences, gates, posts, rails, tension wires, details of extended posts, extension arms, swing gate, or other operation, hardware, and accessories. Indicate materials, dimensions, sizes, weights, and finishes of components. Include plans, gate elevations, sections, details of post anchorage, attachment, bracing, and other required installation and operational clearances.
- C. Product Certificates: For each type of chain-link fence, and gate, signed by product manufacturer.
 1. Strength test results for framing according to ASTM F 1043.

- D. Qualification Data: For Installer.
- E. Maintenance Data: For the following to include in maintenance manuals:

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: An experienced installer who has completed chain-link fences and gates similar in material, design, and extent to those indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.
- B. Preinstallation Conference: Conduct conference at Project site.

1.6 PROJECT CONDITIONS

- A. Field Measurements: Verify layout information for chain-link fences and gates shown on Drawings in relation to property survey and existing structures. Verify dimensions by field measurements.
- B. Interruption of Existing Utility Service: Do not interrupt utility services to facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary utility services according to requirements indicated:
 - 1. Notify Architect no fewer than 2 days in advance of proposed interruption of utility services.
 - 2. Do not proceed with interruption of utility services without Architect's written permission.

1.7 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of chain-link fences and gates that fails in materials or workmanship within specified warranty period.
 - 1. Warranty Period: 2 years.
- B. Installer's Warranty: 1 year.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Chain-Link Fences and Gates: Subject to compliance with requirements, provide products by one of the following.
 - 1. Master-Halco.
 - 2. Ameristar.
 - 3. Anchor Fence.
 - 4. Merchants Metals.
 - 5. Swan Fence Inc.
 - 6. Or equal.

- B. Panic Hardware: Subject to compliance with requirements, provide products by one of the following.
 - 1. Von Duprin. (Basis of design)
 - 2. Or approved equal.

2.2 CHAIN-LINK FENCE FABRIC

- A. General: Provide fabric in one-piece heights measured between top and bottom of outer edge of selvage knuckle or twist. Comply with ASTM A 392, CLFMI CLF 2445, and requirements indicated below:
 - 1. Steel Wire Fabric: Metallic-coated wire with 9 gage (0.144 inches) core thickness.
 - a. Mesh Size: 2 inches.
 - b. Weight of Metallic (Zinc) Coating: ASTM A 392, Type II, Class 2, 2.0 oz./sq. ft. with zinc coating applied after weaving.
 - 2. Selvage: Knuckled at both selvages.

2.3 INDUSTRIAL FENCE FRAMING

- A. Posts and Rails: Comply with ASTM F 1043 for framing, and the following:
 - 1. Group: Group IC round high yield pipe, ASTM F 1043, domestic (not imported) Deluxe Quality (DQ-40) Industrial (not Schedule 40).
 - 2. Fence Height: As indicated on Drawings.
 - 3. Strength Requirement: Heavy industrial according to ASTM F 1043.
 - 4. Post Diameter and Thickness:
 - a. Top and Bottom Rail: 1-5/8 inch O.D. (nominal 1-1/4 inch).
 - b. Terminal Post (Corner, End, and Gate Post): 2-7/8 inch O.D. (nominal 2-1/2 inch).
 - c. Line and Brace Rail: 1-7/8 inch O.D. (nominal 1-1/2 inch).
 - d. Swing Gate Members: 1-7/8 inch O.D. (nominal 1-1/2 inch).
 - 5. End and Corner Post Top: Dome.
 - 6. Coating for Steel Framing:
 - a. Metallic Coating:
 - 1) Type A, consisting of not less than minimum 2.0-oz./sq. ft. average zinc coating per ASTM A 123 or 4.0-oz./sq. ft. zinc coating per ASTM A 653.
 - 2) Type B, zinc with organic overcoat, consisting of a minimum of 0.9 oz./sq. ft. of zinc after welding, a chromate conversion coating, and a clear, verifiable polymer film.
 - 3) External, Type B, zinc with organic overcoat, consisting of a minimum of 0.9 oz./sq. ft. of zinc after welding, a chromate conversion coating, and a clear, verifiable polymer film. Internal, Type D, consisting of 81 percent, not less than 0.3-mil- thick, zinc pigmented coating.
 - 4) Type C, Zn-5-Al-MM alloy, consisting of not less than 1.8-oz./sq. ft. coating.
 - 5) Coatings: Any coating above.
 - b. Polymer Coating:
 - 1) ASTM D 668, Class 2b, fluidized PVC bonded and cured onto metallic-coated steel wire.
 - 2) Color: As selected by Architect from manufacturer's full range, complying with ASTM F 934.

2.4 PANIC HARDWARE

- A. Push-side Hardware: Where noted, provide panic bar exiting device on push-side of gates per the following:
 - 1. Hardware: Von Duprin 99L Touch Bar (basis of design) or approved equal.
 - a. Gate hardware must comply with CBC section 11B-404.
 - 2. Location: Centered at 36"-42" above grade, along the full width of the gate.
- B. Pull-side Hardware: Where noted, provide accessible lever device on pull-side of gates per the following:
 - 1. Hardware: Von Duprin Series 996L Lever (basis of design) or approved equal.
 - a. Gate hardware must comply with CBC section 11B-404.
 - b. The gap between the handle return of the lever and any adjacent surfaces must be less than 1/2" maximum.
 - 2. Location: Centered at 36"-42" above grade.

2.5 TENSION WIRE

- A. General: Provide horizontal tension wire at the following locations:
 - 1. Location: Extended along bottom of fence fabric and along top when either top or bottom rails are not indicated on Drawings.
- B. Metallic-Coated Steel Wire: Minimum 0.177-inch- diameter, marcelled tension wire complying with ASTM A 817, ASTM A 824, and the following:
 - 1. Metallic Coating: Matching chain-link fabric coating type and weight.

2.5 FITTINGS

- A. General: Comply with ASTM F 626.

2.6 INDUSTRIAL SWING GATES

- A. General: Comply with ASTM F 900 for swing gate types.
 - 1. Metal Pipe and Tubing: Galvanized steel. Comply with ASTM F 1043 and ASTM F 1083 for materials and protective coatings.
- B. Frames and Bracing: Fabricate members from round, galvanized steel tubing with outside dimension and weight according to ASTM F 900, domestic Deluxe Quality (DQ), and the following:
 - 1. Gate Fabric Height: 2 inches less than adjacent fence height.
 - 2. Leaf Width: As indicated.
 - 3. Frame members, including interior bracing:
 - a. Tubular Steel: 1-7/8 inch O.D. (nominal 1-1/2 inch).
- C. Frame Corner Construction:
 - 1. Welded adjustable truss rods for panels 5 feet wide or wider.

- D. Hardware: 180 degree hinges, 2 for gates up to 60 inches high, 3 for taller gates; drop bolt on inactive leaf engaging socket stop set in concrete, active leaf latched to inactive leaf preventing raising of drop bolt, padlock hasp; keepers to hold gate in fully open position.
 - 1.

2.7 CAST-IN-PLACE CONCRETE

- A. Materials: Portland cement complying with ASTM C 150, Type I aggregates complying with ASTM C 33, and potable water for ready-mixed concrete complying with ASTM C 94.
 - 1. Concrete Mixes: Normal-weight concrete with not less than 3000-psi compressive strength (28 days), 3-inch slump, and 1-inch maximum size aggregate.

2.8 GROUT AND ANCHORING CEMENT

- A. Nonshrink, Nonmetallic Grout: Premixed, factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C 1107. Provide grout, recommended in writing by manufacturer, for exterior applications.
- B. Erosion-Resistant Anchoring Cement: Factory-packaged, nonshrink, nonstaining, hydraulic-controlled expansion cement formulation for mixing with potable water at Project site to create pourable anchoring, patching, and grouting compound. Provide formulation that is resistant to erosion from water exposure without needing protection by a sealer or waterproof coating and that is recommended in writing by manufacturer, for exterior applications.

2.9 POLYMER FINISHES

- A. Supplemental Color Coating: In addition to specified metallic coatings for steel, provide fence components with polymer coating.
- B. Metallic-Coated Steel Tension Wire: PVC-coated wire complying with ASTM F 1664, Class 2b.
- C. Metallic-Coated Steel Framing and Fittings: Comply with ASTM F 626 and ASTM F 1043 for polymer coating applied to exterior surfaces and, except inside cap shapes, to exposed interior surfaces.
 - 1. Polymer Coating: Not less than 10-mil- thick PVC or 3-mil- thick polyester finish.
- D. Color: Match chain-link fabric, complying with ASTM F 934.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas and conditions, with Installer present, for compliance with requirements for a verified survey of property lines and legal boundaries, site clearing, earthwork, pavement work, and other conditions affecting performance.
 - 1. Do not begin installation before final grading is completed, unless otherwise permitted by Architect.

2. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Stake locations of fence lines, gates, and terminal posts. Do not exceed intervals of 500 feet or line of sight between stakes. Indicate locations of utilities, lawn sprinkler system, underground structures, benchmarks, and property monuments.

3.3 INSTALLATION, GENERAL

- A. Install chain-link fencing to comply with ASTM F 567 and more stringent requirements specified.

3.4 CHAIN-LINK FENCE INSTALLATION

- A. Post Excavation: Drill or hand-excavate holes for posts to diameters and spacings indicated, in firm, undisturbed soil.
- B. Post Setting: Set posts in concrete at indicated spacing into firm, undisturbed soil.
 1. Verify that posts are set plumb, aligned, and at correct height and spacing, and hold in position during setting with concrete or mechanical devices.
 2. Concrete Fill: Place concrete around posts and vibrate or tamp for consolidation. Protect aboveground portion of posts from concrete splatter.
 - a. Hole diameter dug or drilled minimum 4 times largest cross section of post and minimum depth of 24 inches plus additional 3 inch for each 1 feet increase in fence height over 4 feet.
 - b. Exposed Concrete: Extend 2 inches above grade; shape and smooth to shed water.
- C. Terminal Posts: Locate terminal end, corner, and gate posts per ASTM F 567 and terminal pull posts at changes in horizontal or vertical alignment of 15 degrees or more.
- D. Line Posts: Space line posts equidistant at intervals not exceeding 10 feet o.c unless otherwise indicated.
- E. Post Bracing and Intermediate Rails: Install according to ASTM F 567, maintaining plumb position and alignment of fencing. Install braces at end and gate posts and at both sides of corner and pull posts.
 1. Locate horizontal braces at midheight of fabric 6 feet or higher, on fences with top rail and at 2/3 fabric height on fences without top rail. Install so posts are plumb when diagonal rod is under proper tension.
- F. Tension Wire: Install according to ASTM F 567, maintaining plumb position and alignment of fencing. Pull wire taut, without sags. Fasten fabric to tension wire with 0.120-inch- diameter hog rings of same material and finish as fabric wire, spaced a maximum of 24 inches o.c. Install tension wire in locations indicated before stretching fabric.
 1. Top Tension Wire: Install tension wire through post cap loops.
 2. Bottom Tension Wire: Install tension wire within 6 inches of bottom of fabric and tie to each post with not less than same diameter and type of wire.
- G. Top Rail: Install according to ASTM F 567, maintaining plumb position and alignment of fencing. Run rail continuously through line post caps, bending to radius for curved runs and

terminating into rail end attached to posts or post caps fabricated to receive rail at terminal posts. Provide expansion couplings as recommended in writing by fencing manufacturer.

- H. Bottom Rails: Install, spanning between posts.
- I. Chain-Link Fabric: Apply fabric to outside of enclosing framework. Leave 2 inches between finish grade or surface, unless otherwise indicated. Pull fabric taut and tie to posts, rails, and tension wires. Anchor to framework so fabric remains under tension after pulling force is released.
- J. Tension or Stretcher Bars: Thread through fabric and secure to end, corner, pull, and gate posts with tension bands spaced not more than 15 inches o.c.
- K. Tie Wires: Use wire of proper length to firmly secure fabric to line posts and rails. Attach wire at 1 end to chain-link fabric, wrap wire around post a minimum of 180 degrees, and attach other end to chain-link fabric per ASTM F 626. Bend ends of wire to minimize hazard to individuals and clothing.
 - 1. Maximum Spacing: Tie fabric to line posts at 12 inches o.c. and to braces at 24 inches o.c.
- L. Fasteners: Install nuts for tension bands and carriage bolts on the side of the fence opposite the fabric side. Peen ends of bolts or score threads to prevent removal of nuts.

3.5 GATE INSTALLATION

- A. Install gates according to manufacturer's written instructions, level, plumb, and secure for full opening without interference. Attach fabric as for fencing. Attach hardware using tamper-resistant or concealed means. Install ground-set items in concrete for anchorage. Adjust hardware for smooth operation and lubricate where necessary.

3.6 ADJUSTING

- A. Gate: Adjust gate to operate smoothly, easily, and quietly, free of binding, warp, excessive deflection, distortion, nonalignment, misplacement, disruption, or malfunction, throughout entire operational range. Confirm that latches and locks engage accurately and securely without forcing or binding.
- B. Lubricate hardware and other moving parts.

END OF SECTION 323113